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Abstract of the Disclosure

5 A technique to ascertain the presence or absence of
an object in a three-dimensional volume, such as
explosives in the side walls of luggage. The technique
involves radiation scanning the three-dimensional volume
to determine a property of each of a plurality of voxels
representing the three-dimensional volume and to identify
voxels having similar values of the property to identify
a contiguous group of voxels having the similar values.
10 Then, the contiguous group of voxels is identified as
containing the object if a characteristic (such as mass
and/or volume) of the contiguous group has a
predetermined value.